

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE

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ATTY. DOCKET NO. **11710-0160** SERIAL NO. **09/531,247** FILING DATE **March 21, 2000**  
 APPLICANT **Jian Qin et al.** GROUP **1711**

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>DRW</i>	AA	2,168,286	8/1/39	Warner Eustis et al.	—	—	
	AB	2,809,159	10/8/57	Ernest I Welles et al.	—	—	
	AC	3,005,456	10/24/61	G.C. Graham, Jr.	—	—	
	AD	4,096,311	6/20/78	Pietreniak	—	—	
	AE	4,413,032	11/1/83	Hartmann et al.	—	—	
	AF	4,548,847	10/22/85	Aberson et al.	—	—	
	AG	4,600,462	7/15/86	Watt	—	—	
	AH	4,873,143	10/10/89	Tanaka	—	—	
	AI	4,888,238	12/19/89	Katz et al.	—	—	
	AJ	4,940,626	7/10/90	Rhodes, III et al.	—	—	
<i>DRW</i>	AK	5,057,361	10/15/91	Sayovitz et al.	—	—	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO.
*	<del>AL</del>	<del>JA-7317636-R</del>	<del>12.09.69</del>	<del>Japan (English Abstract)</del>	—	—		
*	<del>AM</del>	<del>25 38 092</del>	<del>03.03.77</del>	<del>German (English Abstract)</del>	—	—		
*	<del>AN</del>	<del>84-250922/41</del>	<del>09.09.81</del>	<del>(English Abstract)</del>	—	—		
*	<del>AO</del>	<del>JA-7245635-R</del>	<del>10.06.68</del>	<del>Japan (English Abstract)</del>	—	—		
*	<del>AP</del>	<del>J4 9066-991</del>	<del>28.10.72</del>	<del>Japan (English Abstract)</del>	—	—		
*	<del>AQ</del>	<del>J5 9228-074-A</del>	<del>08.06.83</del>	<del>Japan (English Abstract)</del>	—	—		
*	<del>AR</del>	<del>27-09-019</del>	<del>2.3.77</del>	<del>Germany (English Abstract)</del>	—	—		
*	<del>AS</del>	<del>J5 8017-121</del>	<del>24.07.81</del>	<del>Japan (English Abstract)</del>	—	—		
*	<del>AT</del>	<del>J4 8067-590</del>	<del>22.12.71</del>	<del>Japan (English Abstract)</del>	—	—		

EXAMINER *DRWILSON* DATE CONSIDERED *6/02*

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\* not "foreign patent documents". Need to be listed under "Other Documents" with source

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DRW	BA	5,079,076	1/7/92	Lal	7	1	
	BB	5,079,081	1/7/82	Lal	1	1	
	BC	5,151,465	9/29/92	Le-Khac	1	1	
	BD	5,158,575	10/27/92	Czech	1	1	
	BE	5,209,966	5/11/93	Lange et al.	1	1	
	BF	5,219,644	6/15/93	Lal et al.	1	1	
	BG	5,280,079	1/18/94	Allen et al.	1	1	
	BH	5,300,358	4/5/94	Evers	1	1	
	BI	5,362,555	11/8/94	Lal	7	1	
	BJ	5,500,254	3/19/96	Quincy, III et al.	7	1	
DRW	BK	5,540,984	7/30/96	Quincy, III et al.	7	1	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO.
5	BE	<del>2239 592</del>	<del>11.08.72</del>	<del>Germany (English Abstract)</del>	7	1		
5	BM	<del>J5 3134-992</del>	<del>15.04.77</del>	<del>Japan (English Abstract)</del>	1	1		
5	BN	<del>J4 9063 761</del>	<del>21.10.72</del>	<del>Japan (English Abstract)</del>	1	1		
5	BO	<del>JA 4867591 Q</del>	<del>14.09.73</del>	<del>Japan (English Abstract)</del>	1	1		
5	BP	<del>2143 014</del>	<del>27.08.71</del>	<del>Germany (English Abstract)</del>	7	1		
DRW	BQ	0 314 449	03.05.89	EPO	1	1	X	
1	BR	EP 0 845 272 A2	03.06.98	EPO	1	1	X	
DRW	BS	EP 0 789 047 A1	13.08.97	EPO	1	1	X	

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DRW	CA	5,620,788	4/15/97	Garavaglia et al.			
	CB	5,677,028	10/14/97	Ravella			
	CC	5,716,703	2/10/98	Payne			
	CD	5,728,082	3/17/98	Gustafsson et al.			
	CE	5,731,083	3/24/98	Bahia et al.			
	CF	5,749,863	5/12/98	Payne			
	CG	5,807,364	9/15/98	Hansen			
	CH	5,814,567	9/29/98	Vahiaoui et al.			
	CI	5,910,368	6/8/99	Ehret			
DRW	CJ	5,912,194	6/15/99	Everhart et al.			
	CK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO.
	CL							
	CM							
	CN							
	CO							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	CP	
	CR	
	CS	
	CT	

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Substitute for Form 1449/APP

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Sheet	1
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Application Number

**09/531,247**

Filing Date

**March 21, 2000**

**First Named Inventor**

<b>Qin</b>	
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### Group Art Unit

1713

**Examiner Name**

**Wilson, D.**

Attorney Docket Number

**44043/228525 (11710-0160)**

[illegible][illegible]

Examiner  
Signature

Date 6/  
Considered

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.